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$$\xi^2 = \eta\zeta, \quad \eta^2 = \zeta\xi, \quad \zeta^2 = \xi\eta;$$

and the terms in  $x'', y'', z''$ , are all to be taken with positive signs. Sir William Hamilton pretends to no farther merit in the matter than to that of having sought to illustrate, by generalizing in one direction, the foregoing points of the theories of his friends.

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February 10, 1845.

SIR WM. R. HAMILTON, LL.D., President, in the  
Chair.

Robert Forster, Esq., William Le Fanu, Esq., Reverend George Longfield, John M. Neligan, M. D., William Justin O'Driscoll, Esq., Nicholas P. O'Gorman, Esq., Algernon T. Preston, Esq., and James Emerson Tennant, Esq., M. P., were elected Members of the Academy.

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The President read a paper on Quaternions.—See *Appendix*, No. III.

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A stone celt was presented by the Rev. Dr. Walsh, H. M., from Captain Walsh.

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February 24, 1845.

SIR WM. R. HAMILTON, LL.D., President, in the  
Chair.

Matthew Baker, Esq., Patrick Joseph Blake, Esq., John D'Arcy, Esq., Rev. Nicholas John Halpin, Samuel Haughton, Esq., F. T. C. D., William Hogan, Esq., C. E., James Macdonnell, Esq., C. E., Right Hon. David R. Pigot, Matthew R. Sausse, Esq., Walter Sweetman, Esq., R. William Town-